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CLAIMS

A metal halide lamp comprising:

an arc tube having an envelope made of translucent ceramic, a pair of electrodes disposed therein, and one or more halides are enclosed therein; and

a casing tube surrounding at least a portion of the arc tube, the portion positionally corresponding to, in a radial direction of the arc tube, a space between the electrodes, wherein

10 $L/D \ge 4$, where L is a length of the space between the electrodes and D is an internal diameter of the arc tube, and

 $R/r \ge 3.0$, where R is an internal diameter of the casing tube and r is an external diameter of the arc tube, within a region positionally corresponding to, in the radial direction, the space between the electrodes, on a cross-sectional surface where an outer circumference of the arc tube comes closest to an inner circumference of the casing tube.

2. The metal halide lamp of Claim 1, wherein $4.7 \le R/r \le 8.0$.

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3. The metal halide lamp of Claim 1, wherein $4 \le L/D \le 10$.

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4. The metal halide lamp of Claim 2, wherein $4 \le L/D \le 10$.

- 5. The metal halide lamp of Claim 1, wherein the arc tube is disposed in a hermetically-sealed space, and a degree of vacuum in the space is no more than 1×10¹ Pa
- 10 6. The metal halide lamp of Claim 4, wherein the arc tube is disposed in a hermetically-sealed space, and a degree of vacuum in the space is no more than 1×10¹ Pa at 300 K.

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at 300 K.

- 7. The metal halide lamp of Claim 5, wherein one or more oxygen-releasing getters are disposed in the space.
- 20 8. The metal halide lamp of Claim 6, wherein one or more oxygen-releasing getters are disposed in the space.
 - 9. The metal halide lamp of Claim 1, wherein

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the halides include sodium.

10. The metal halide lamp of Claim 8, wherein the halides include sodium.

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and

11. A luminaire comprising:

a metal halide lamp recited in one of Claims 1 to 10;

a lighting circuit for illuminating the metal halide lamp.